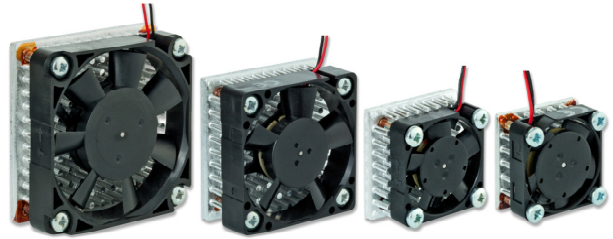
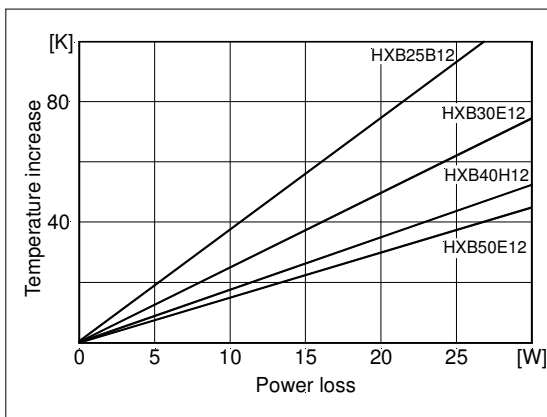


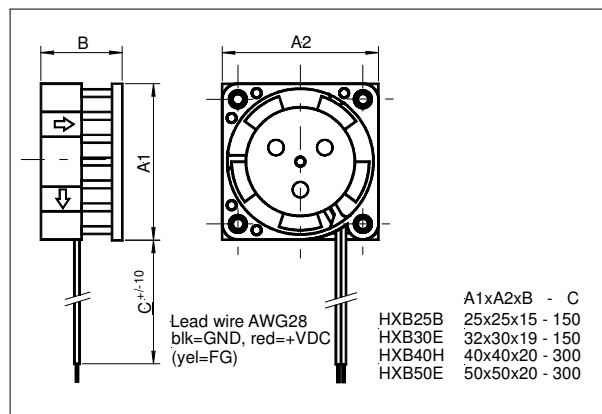
**HXB25B12, HXB30E12,
HXB40H12, HXB50E12**
SPIKE BOARD COOLER



COOLING PERFORMANCE



SHAPE AND DIMENSION



PERFORMANCE

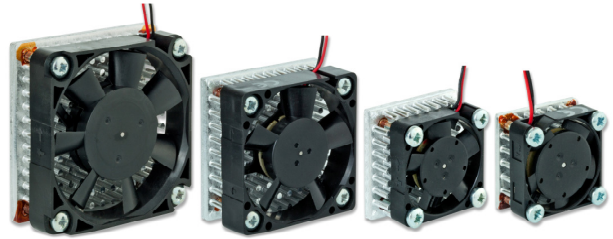
CE		HXB25B12	HXB30E12	HXB40H12	HXB50E12
		HXB25B12A	HXB30E12A	HXB40H12A	HXB50E12A
Operating voltage	[VDC]	10.2 ... 12 ... 13.8			
Typ. operating current	[mA]	30	30	60	60
Max. starts current	[mA]	80	70	90	140
Typ. thermal resistance	[K/W]	3.8	2.5	1.8	1.5
Typ. noise (1m dist. ffrom air intake s.)	[dB(A)]	21	22	25	25
Typ. rotor speed	[RPM]	11000	9000	5500	4800
FG (...A)	[PPR]	3	3	2	2
Operating temperature	[°C]	-10 ... +70			
Life expectancy L10/MTBF@ 40°C	[h]	70000/350000			
Bearing system		2 Ball bearings ZZ			
Weight	[g]	11	23	37	55
Standard packing quantity	[Pcs.]	50-100-500	50-100-500	50-100-500	40-100-500

This **SEPA**[®] high-tech miniature cooler is suitable for industrial or automotive use and has a remarkable air flow performance despite its small dimensions. Thanks to the extremely low power input, this fan is highly suitable for battery-operated devices. It is permanently protected electrically against reverse polarity, blocking and thermal overloading. Due to the low rotor weight and precision balancing, it is virtually vibration-free. It is also insensitive to shock.

Further features of this fan are its extremely robust and torsionally stiff housing, ball bearings with narrow tolerances, of special steel, polyester-based PCB and absolute reliability due to a 100% burn-in.

Technical changes without notice • 04/15

**HXB25B12, HXB30E12,
HXB40H12, HXB50E12
SPIKE BOARD COOLER**



• **ALARMSIGNAL (Optional)**

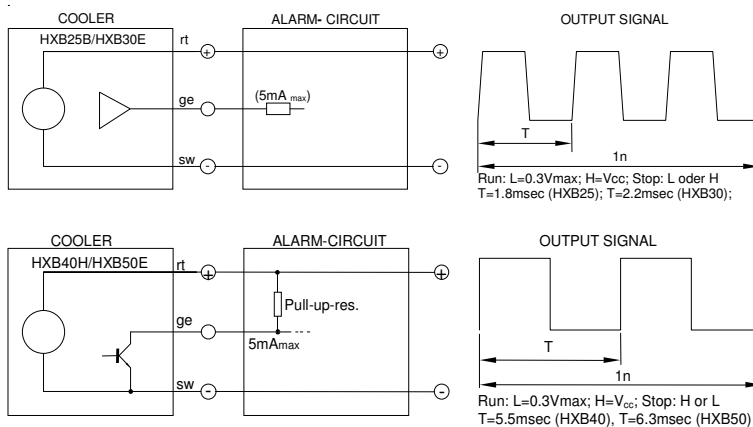
The **SEPA**® fan HXBxxx12A includes a pulse output, which allows monitoring the correct function of the fan.

The pulse is like a rectangular wave, the frequency correlates to multiple rotor speed. The amplitude appears periodically. At blocked rotor the output signal could be L ($\leq 0,3V$) or H (Vcc).

IMPORTANT: The pulse output is not protected against short circuit and must not connect to GND or Vcc without pre-resistor. A pull-up-resistor is needed for HXB25B12A and HXB30E12A. Do not connect not used pulse output (insolate).

The fans HXBxxx12 have tinned lead wire ends (without connector).

Do not touch the rotor! Please note the handling specification!



• **ACCESSORIES:**

Connector: on request

Mounting part: TCT35, TCT 42, HERNON 746-SET

• **ORDER INFORMATION (Delivery time on request)**

HXB25B12	SEPA ® Spike board cooler, 25x25x15.0mm, 12VDC, Ball bearings, CE ,	112522000
HXB25B12A	SEPA ® Spike board cooler, 25x25x15.0mm, 12VDC, Ball bearings, FG, CE ,	112522010
HXB30E12	SEPA ® Spike board cooler, 30x30x19.5mm, 12VDC, Ball bearings, CE ,	113322000
HXB30E12A	SEPA ® Spike board cooler, 30x30x19.5mm, 12VDC, Ball bearings, FG, CE ,	113322010
HXB40E12	SEPA ® Spike board cooler, 40x40x20.5mm, 12VDC, Ball bearings, CE ,	114022000
HXB40E12A	SEPA ® Spike board cooler, 50x50x20.5mm, 12VDC, Ball bearings, FG, CE ,	114022010
HXB50E12	SEPA ® Spike board cooler, 50x50x20.5mm, 12VDC, Ball bearings, CE ,	115022000
HXB50E12A	SEPA ® Spike board cooler, 50x50x20.5mm, 12VDC, Ball bearings, FG, CE ,	115022010

SEPA® is the brand name for fans and CPU-cooler, made by Nippon Keiki Works LTD., Tokyo

Technical changes without notice • 04/15